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without which the candidate will not be admitted. For example, under this plan the boy who can not write good idiomatic English would not be admitted to college at all, but would be sent back to the secondary school. The entrance requirements recently adopted at Harvard are quite in line with these recommendations. The president of the foundation urges a cooperation between the secondary school and the college not as unrelated institutions, but as two parts of a common system of education. He argues that the interest of the great mass of high school students must not be sacrificed to the interest of the minority who are looking toward college. He insists on a larger measure of freedom for the secondary school, but on the other hand, he argues that the interest of the boy who goes to college and the boy who goes from the high school into business are alike conserved by learning a few things well, not by learning many things superficially. The boy who has obtained such intellectual discipline is a fit candidate for college, whether he has studied one set of subjects or another; without this intellectual discipline he is unfit alike for college or business. It is therefore, in the opinion of the president of the foundation, the plain duty of the college, at the present stage of American educational development, to articulate squarely with the four-year high school and to leave the secondary school the largest freedom so that it may educate boys, not coach them; but at the same time to require of the candidates for admission tests which rest upon high performance in the elementary studies and which mean mastery of the fundamentals. In such a program lies the hope of scholarly betterment and of civic efficiency for both college and high school.

The report may be obtained by writing to The Carnegie Foundation, 576 Fifth Avenue, New York City.

#### THE PUBLIC HEALTH SERVICE

THE following bill has been introduced in the senate and in the house of representatives:

A BILL: To change the name of the Public Health and Marine-Hospital Service to the Public

Health Service, to increase the pay of officers of said service, and for other purposes.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the Public Health and Marine-Hospital Service of the United States shall hereafter be known and designated as the Public Health Service, and all laws pertaining to the Public Health and Marine-Hospital Service of the United States shall hereafter apply to the Public Health Service, and all regulations now in force, made in accordance with law for the Public Health and Marine-Hospital Service of the United States shall apply to and remain in force as regulations of and for the Public Health Service until changed or rescinded. The Public Health Service may study and investigate the diseases of man and conditions influencing the propagation and spread thereof, including sanitation and sewage and the pollution either directly or indirectly of the navigable streams and lakes of the United States, and it shall from time to time issue information in the form of bulletins and otherwise for the use of the public.

SEC. 2. That beginning with the first day of July next after the passage of this act the salaries of the commissioned medical officers of the Public Health Service shall be at the following rates per annum: surgeon-general, \$6,000; assistant surgeon-general, \$4,000; senior surgeon, of which there shall be ten in number, on active duty, \$3,500; surgeon, \$3,000; passed assistant surgeon, \$2,400; assistant surgeon, \$2,000; and the said officers, excepting the surgeon-general, shall receive an additional compensation of 10 per cent. of the annual salary as above set forth for each five years' service, but not to exceed in all 40 per cent.: Provided, That the total salary, including the longevity increase, shall not exceed the following rates: assistant surgeon-general, \$5,000; senior surgeon, \$4,500; surgeon, \$4,000: Provided further, That there may be employed in the Public Health Service such help as may be provided for from time to time by Congress.

#### SCIENTIFIC NOTES AND NEWS

At a meeting held on January 12 the Geological Society in Stockholm, Sweden, elected to eight vacancies in their twenty corresponding memberships, Frank D. Adams, Montreal; Charles Barrois, Lille; Eduard Brückner, Vienna; Albrecht Heim, Zürich; C. R. van Hise, Madison; James F. Kemp, New

York; Albrecht Penck, Berlin, and Charles D. Walcott, Washington.

DR. W. J. HOLLAND, director of the Carnegie Institute, Pittsburgh, has received from the Czar of Russia, the insignia of a knight of the order of St. Stanislas, second class, in recognition of his services to science; and Mr. A. S. Coggeshall, the chief preparator in the section of paleontology in the same institution, has had conferred upon him by the same sovereign knighthood in the order of St. Anne.

DR. HENRY PRENTISS ARMSBY, director of the Institute of Animal Nutrition of the Pennsylvania State College, has been elected a member of the Royal Society of Arts of Great Britain.

DR. H. LORENZ, professor of physics at Leyden, and Dr. E. Strasburger, professor of botany at Bonn, have been elected members of the St. Petersburg Academy of Sciences.

DR. HENRY FAIRFIELD OSBORN, president of the American Museum of Natural History and Da Costa professor of zoology at Columbia University, was given a dinner by his former students at the Faculty Club of Columbia University, on February 18, in celebration of his thirtieth anniversary as a teacher. About forty-five guests and former students under Professor Osborn at Columbia and Princeton Universities were present. Speeches were made by Professors E. B. Wilson, W. B. Scott and C. F. W. McClure.

DR. HENRY M. HURD has retired from the superintendency of the Johns Hopkins Hospital, and is succeeded by Dr. W. H. Smith, superintendent of Bellevue Hospital, New York City.

DR. ANDREW W. PHILLIPS, since 1891 professor of mathematics in Yale College and since 1895 dean of the graduate school, will retire from active service at the close of the present academic year.

CHARLES JOYCE WHITE, professor of mathematics at Harvard University from 1885 to 1894, has been appointed emeritus professor, and William Barker Hills, associate professor of chemistry from 1889 to 1904, has been appointed emeritus associate professor.

THE University of La Plata and the University of Michigan have arranged for co-operation in the work of their astronomical observatories. Professor W. J. Hussey has been appointed director of La Plata Observatory, but is still to remain director of the observatory of the University of Michigan. He will divide his time equally between the two institutions, spending the second semester of each year at Ann Arbor. Mr. R. P. Lamont, of Chicago, is furnishing a 24-inch refracting telescope for the University of Michigan. It is the intention to take this instrument, when completed, to a favorable site in Argentina, and while it is there to have it used under the joint auspices of the two universities.

PROFESSOR GILBERT N. LEWIS, of the Massachusetts Institute of Technology, will deliver eight lectures on "The Principle of Relativity," on Monday and Thursday afternoons, beginning on March 6, in the Jefferson Physical Laboratory of Harvard University.

#### UNIVERSITY AND EDUCATIONAL NEWS

IN the Massachusetts senate on February 21 the committee on education reported a resolve, on the petition of Richard C. Maclaurin, president, and others, for an increase in the state appropriation for the Massachusetts Institute of Technology. The resolve provides that there shall be paid annually, for ten years, to the institute the sum of \$100,000, from January 1, 1912, to be expended under the direction of the corporation for the general purposes of the institute; the institute shall maintain forty free scholarships in addition to those already maintained.

MR. CARNEGIE recently wrote the board of trustees of the Carnegie Institute that he is prepared to increase the endowment income \$50,000 or \$100,000 a year if it can be shown that any department is hampered from lack of funds. The founder expects to visit Pittsburgh about May 1 to receive the report of the board.

AN alumnus, who wishes to remain anonymous, has given to Phillips Exeter Academy \$18,744, with which to complete the Wentworth mathematical fund of \$50,000. William